

RI-F48 | RI-R48 | RI-R48N

IT NETWORKS INSULATION CONTROL 24-48 VAC/DC



General Characteristics



These devices allow the insulation monitoring to earth of electric networks in alternate and direct current 24-48 VAC/DC isolated (IT systems). These devices measure the potential variation of two polarity on earth reference, to signal when the insulation decreasing under a fixed value. Auxiliary supply is taken from under-control network. On the frontal panel there is the signaling of device ON, a TEST and a RESET (versions RI-R48 and RI-R48N) pushbuttons and LEDs to the signaling of tripping (TRIP) and to indicate the polarity (version RI-R48N) of the line under control that has low insulation. The TRIP threshold is regulated by micro-switches (versions RI-R48 and RI-R48N). It's available a changeover contact relay to use the low insulation signaling in a remote panel.

Features

- INSULATION MONITORING OF IT SYSTEMS 24-48 VAC/DC
- TRIP MANUAL RESET (VERSIONS RI-R48 AND RI-R48N)
- LOW INSULATION LED
- DAMAGED POLE LED (VERSION RI-R48N)
- TEST PUSHBUTTON
- TRIP THRESHOLD SETTING (VERSIONS RI-R48 AND RI-R48N)

Technical characteristics

Controlled network voltage	24-48 VAC/DC
Power consumption	3 VA
ALARM threshold setting	-
TRIP threshold setting	10÷60 kΩ (version RI-R48 and version RI-R48N) 100kΩ (version RI-F48)
Tripping delay	< 5 sec
Max measuring current	0,5 mA
Max measuring voltage	-
Internal impedance	50 kΩ
TRIP Relay number NO-C-NC	1
ALARM Relay number NO-C-NC	-

Max relay contact capacity	250V - 5A
Operating temperature	-10 ÷ 60 °C
Storage temperature	-20 ÷ 80 °C
Relative humidity	≤95%
Max terminal section	4 mm ²
Protection degree	IP40 front IP20 housing
Insulation test	2.5 kV 60 sec. / 4 kV imp 1.2/50 μs
Modules	3
Weight	200 g
Standards	EN 61010-1, EN 61557-8, EN 61326-1

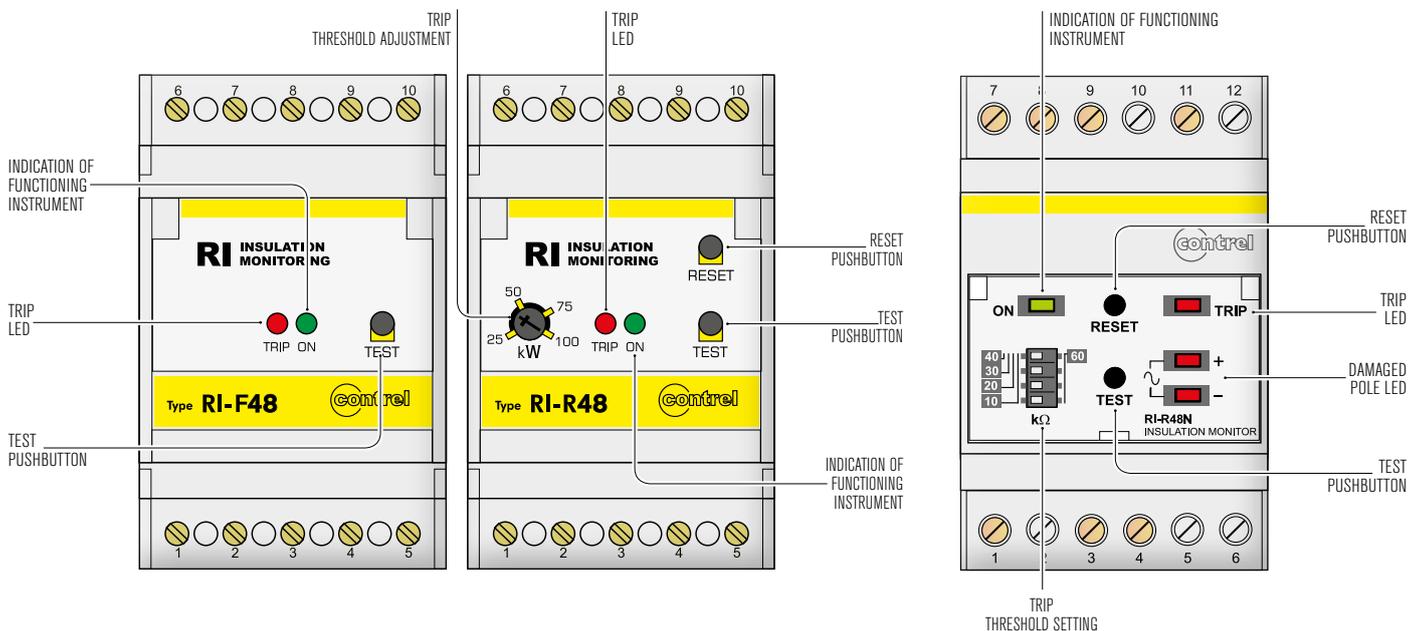
ORDER CODE	VERSION	Vaux	DESCRIPTION	CONTROLLED NETWORK VOLTAGE	MODULES
RI-F48	TRIP threshold fixed 100kΩ	24-48 VAC/DC	IT networks insulation control 24-48 VAC/DC	24-48 VAC/DC	3
RI-R48	TRIP threshold adjustment	24-48 VAC/DC	IT networks insulation control 24-48 VAC/DC	24-48 VAC/DC	3
RI-R48N	TRIP threshold adjustment Damaged pole LED	24-48 VAC/DC	IT networks insulation control 24-48 VAC/DC	24-48 VAC/DC	3

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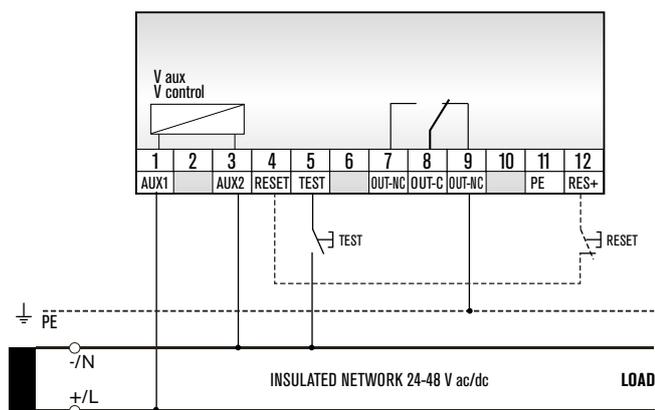
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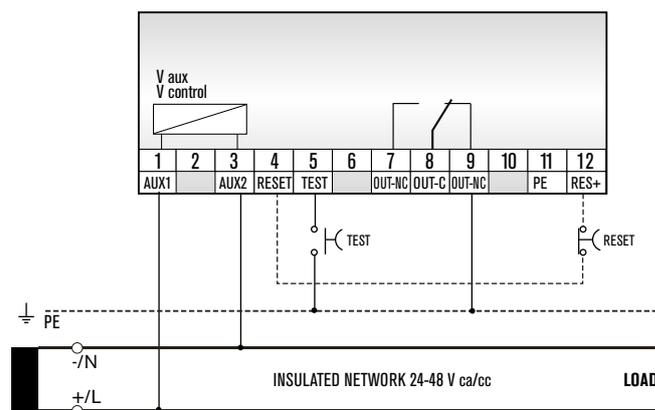
Operators



Wiring diagrams



RI-F48 | RI-R48



RI-R48N

Mechanical dimensions (mm)

